

May 29, 2020

The Honorable Chair and Members of the Hawai'i Public Utilities Commission Kekuanao'a Building, First Floor 465 South King Street Honolulu, Hawai'i 96813

Dear Commissioners:

### Subject: Maui Electric Energy Cost Recovery Factor for June 2020 Revised Attachments Reflecting RBA Rate Adjustment

Enclosed for filing are revised Attachments 1, 7, 8A, 8B, 9, 10, 15, 16A, 16B, 17, 22, 23A, and 23B of Maui Electric Company, Limited 's ("Maui Electric" or "Company") June 2020 energy cost adjustment factor filing, reflecting the impact of the Company's Revenue Balancing Account ("RBA") rate adjustment, as approved by the Commission in Order No. 37150 issued on May 28, 2020.

On May 27, 2020, Maui Electric filed its energy cost adjustment factors for June 2020 and indicated that it would file the enclosed revised attachments after the Commission issued its decision on the Company's RBA rate adjustment proposal submitted in Transmittal No. 20-03 and incorporate the impact in the customer bill analysis. There is no change to the energy cost adjustment factors as filed May 27, 2020.

For our Maui Division, a residential customer consuming 500 kWh of electricity will be paying \$157.82, a decrease of \$8.24 compared to rates effective May 1, 2020. The decrease in the typical residential bill is due to the decrease in the Energy Cost Recovery Factor (-\$5.57) and the decrease in the RBA rate adjustment (-\$2.67).

For our Lāna'i Division, a residential customer consuming 400 kWh of electricity will be paying \$131.79, a decrease of \$16.25 compared to rates effective May 1, 2020. The decrease in the typical residential bill is due to the decrease of the Energy Cost Recovery Factor (-\$14.11) and the decrease in the RBA rate adjustment (-\$2.14).

For our Moloka'i Division, a residential customer consuming 400 kWh of electricity will be paying \$127.13, a decrease of \$23.87 compared to rates effective May 1, 2020. The decrease in the typical residential bill is due to the decrease of the Energy Cost Recovery Factor (-\$21.68), decrease in the Purchase Power Adjustment (-\$0.05) and the decrease in the RBA rate adjustment (-\$2.14).

The Honorable Chair and Members of the Hawai'i Public Utilities Commission May 29, 2020 Page 2

For the Commission's convenience, Maui Electric is refiling all of the attachments included in the May 27, 2020 filing. The revised attachments are notated with "Revised 05/29/2020" in the headers; the other attachments are unchanged.

Sincerely,

<u>/s/ Sharon M. Suzuki</u> Sharon M. Suzuki President Maui County and Hawai'i Island Utilities

Attachments

cc: Division of Consumer Advocacy

## MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

# ENERGY COST RECOVERY FACTOR

20 Change
8.71(454.27)0.000.002.460.00
810 (5.421)
810 (5.421)
7.13(23.87)7.40(29.84)
0222 2.1

Supe	ersedes Sheet Effective:	May 1, 2020

#### MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - June 1, 2020 (page 1 of 2)

Line

1	Effective Date	June 1, 2020
2	Supercedes Factors	May 1, 2020

#### **GENERATION COMPONENT**

	CENTRAL STATION		
	FUEL PRICES, ¢/mmbtu		
3	Industrial	0.00	
4	Diesel	1,033.71	
5	Other	0.00	
	DTU MIX 0/		
6	BTU MIX, % Industrial	0.00	DG ENERGY COMPONENT 23 COMPOSITE COST OF DG
-	Diesel	100.00	ENERGY, ¢/kWh 0.000
	Other	0.00	24 % Input to System kWh Mix 0.00
0	Other	100.00	
		100.00	25 WEIGHTED COMPOSITE DG ENERGY COST.
9	COMPOSITE COST OF GENERATION,		¢/kWh (Lines 23 x 24) 0.00000
-	CENTRAL STATION + OTHER ¢/mmbtu	1,033.71	<i>p</i> ,
	(Lines (3 x 6) + (4 x 7) + (5 x 8))	,	
10	% Input to System kWh Mix	99.70	26 BASE DG ENERGY COMP COST 0.000
			27 Base % Input to System kWh Mix 0.00
	EFFICIENCY FACTOR, mmbtu/kWh		28 WEIGHTED BASE DG ENERGY COST,
	(A) (B) (C)	(D)	¢/kWh (Line 26 x 27) 0.00000
	Percent of		
	Eff Factor Centrl Stn +	Weighted	29 Cost Less Base (Line 25 - 28) 0.00000
	Fuel Type mmbtu/kwh Other	Eff Factor	30 Loss Factor 1.098
11	Industrial 0.000000 0.00	0.000000	31 Revenue Tax Req Multiplier 1.0975
12 13	Diesel 0.011127 100.00   Other 0.011127 0.00	0.011127 0.000000	32 DG FACTOR, ¢/kWh (Line 29 x 30 x 31) 0.00000
15	(Lines 11, 12, 13): Col(B) x Col(C) = Col(D)	0.000000	¢/kWII (LIIIe 29 x 30 x 31) 0.00000
14	Weighted Efficiency Factor, mmbtu/kWh		
14	[lines $11(D) + 12(D) + 13(D)$ ]	0.011127	
		0.011121	
15	WEIGHTED COMPOSITE CENTRAL STATION	1 +	
	OTHER GENERATION COST, ¢/kWh		
	(lines (9 x 10 x 14))	11.46708	
16	BASE CENTRAL STATION + OTHER		
	GENERATION COST, ¢/mmbtu	0.00	
	Base % Input to Sys kWh Mix	0.00	
	Efficiency Factor, mmbtu/kwh	0.011127	
19	WEIGHTED BASE CENTRAL STATION + OTH GENERATION COST ¢/kWh		
	(lines (16 x 17 x 18))	0.00000	
		0.00000	SUMMARY OF
20	COST LESS BASE (line(15 - 19))	11.46708	TOTAL GENERATION FACTOR, ¢/kWh
	Revenue Tax Reg Multiplier	1.0975	33 CNTRL STN + OTHER (line 22) 12.58512
	<b>CENTRAL STATION + OTHER GENERATION</b>		34 DG (line 32) 0.00000
	FACTOR, ¢/kWh (line (20 x 21))	12.58512	35 TOTAL GENERATION FACTOR,
			¢/kWh (lines 33 + 34) 12.58512
			-

0.006

12.810

ENERGY COST RECOVERY (ECR) FILING - June 1, 2020 (page 2 of 2)

Line 1 Effective Date 2 Supercedes Factors June 1, 2020 May 1, 2020

#### Line PURCHASED ENERGY COMPONENT

37	PURCHASED ENERGY PRICE, ¢/kWh - Fossil PURCHASED ENERGY PRICE, ¢/kWh - Renewab Unused CBRE FIT	le 0.000 22.500 21.800
40	Sch Q	0.000
42	PURCHASED ENERGY KWH MIX, % - Fossil PURCHASED ENERGY KWH MIX, % - Renewable Unused CBRE FIT	0.00% 93.67% 6.33%
45	Sch Q	0.00%
45B 45C	Fossil Purch. Energy % Renewable Purch. Energy % Comp. Cost, Fossil Purch. Energy, ¢/kWh Comp. Cost, Renewable Purch. Energy,¢/kWh	0.00% 100.00% N/A 22.456
46	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (36 x 41) + (37 x 42) + (38 x 43) + (39 x 44)	22.456 ))
	% Input to System kWh Mix	0.30
48	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (46 x 47))	0.06835
50	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh Base % Input to Sys kWh Mix	0.000 0.00
51	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (49 x 50))	0.00000
53 54	COST LESS BASE (lines (48 - 51)) Loss Factor Revenue Tax Req Multiplier PURCHASED ENERGY FACTOR, ¢/kWh (lines (52 x 53 x 54))	0.06835 1.098 1.0975 0.08237

1.54	Onlawleting of Manthly Frankl Field One ( Dish City) - C	
<u>Line</u>	Calculation of Monthly Fossil Fuel Cost Risk Sharing Compone	ent
	Baseline Diesel	
	Baseline Diesel	
56	Diesel \$, baseline month	\$415,672
57	Diesel mmbtu, baseline	26,195
58	Baseline Diesel, c/mmbtu	1,586.84
	Month Diesel	
59	Diesel mmbtu, budget	25,604
60	Diesel Cost, ¢/mmbtu	1,033.71
61	Diesel ECRC Fossil Cost	\$264,669
62	Diesel Base ECRC Recovery Target	\$204,009 \$406,292
62 63	Diesel differential	. ,
		-\$141,624
64	Total Fossil	-\$141,624
65	2% of above	-\$2,832
66	Total Monthly Fossil Fuel Cost Risk Sharing, Prior Months in Year	\$933
67	Maximum Annual Cap (bi-directional)	\$31,500
68	Number of Days in year from implementation	366
69	Fossil Risk % Proration (based on 366 day year)	100.00%
70	Maximum Annual Cap (bi-directional) prorated	\$31,500
71	Applicable Monthly Fossil Fuel Cost Risk Sharing	-\$2,832
72	Total Monthly Fossil Fuel Cost Risk Sharing, Including This Month	-\$1,899
70	Franki Orad Disk Obasian batana taun	<b>*</b> 0.000
73	Fossil Cost Risk Sharing before taxes	-\$2,832
74	Revenue Tax Adjustment	1.097514
75	Fossil Cost Risk Sharing w/revenue tax	-\$3,109
76	Forecasted Month MWh Sales	2,285
77	Fossil Fuel Cost Risk Sharing Component, ¢/kWh	0.1361
Line	SYSTEM COMPOSITE CALCULATIONS	
	78 GENERATION AND PURCHASED ENERGY	
	FACTOR, ¢/kWh	12.66749
	(lines (35 + 55))	12.00749
	79 Adjustment, ¢/kWh	0.000
		0.000
	80 Fossil Fuel Cost Risk Sharing Component	0.136

81 ECR Reconciliation Adjustment

82 ECR FACTOR, ¢/kWh (lines (78 + 79 + 80 + 81))

## Maui Electric Company, Ltd. Molokai Division

#### MONTH END FUEL OIL ESTIMATE

	Barrels	MBTU	\$
5/20/2020	6,130.86	35,129.81	413,380.25
Estimated Use	1,555.35	8,912.16	132,611.47
Estimated Received	4,000.00	22,920.00	227,172.96
Estimated Additional		-	
Estimated End	8,575.51	49,137.65	507,941.74

Next Months Expense = \$ 59.2317 /bbl

# FUEL OIL INVENTORY PRICE USED FOR FILING

Type of Oil Burned	<u>Price</u>	Conversion Factor	Prices ¢/MBTU
Diesel	\$ 59.2317	5.73 BTU/BBL	1033.71

## MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION

### **Contract Prices effective May 1, 2020**

TYPE OF OIL BURNED	\$/BBL	¢/MBTU
ULTRA LOW SULFUR DIESE	L	
Tax *	3.1191	54.43
Ocean Transportation	1.5036	26.24
Storage	4.9389	86.19
Wharfage	0.4000	6.98

- \* Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST tax, Environmental Response Tax, Customs Duty Fee, Federal Oil Spill Recovery Fee, and Federal Excise Tax.
- Note: Since these components are not accounted for separately in inventory, contract prices for the current month are being provided. Contract prices are considered accurate pending actual delivery of the fuel.

Reference: Decision and Order No. 16134, Docket No. 96-0040.

# MAUI ELECTRIC COMPANY, LTD. Molokai Division ECR Reconciliation Adjustment

## June 2020

1. Amount to be Collected	\$400	
2. Monthly amount (1/3 x Line 1)	\$133	
3. Revenue Tax Divisor	0.91115	
4. Total (Line 2 / Line 3)	\$146	
5. Estimated Sales (June 2020)	2,285	mwh
6. Adjustment (Line 4 ÷ Line 5)	0.006	¢/kwh

## MAUI ELECTRIC COMPANY, LTD. MOLOKAI DIVISION 2020 Cumulative Reconciliation Balance

	(1) YTD FOA		(2) FOA Rec Adjust	(3) FOA Rec Less	(4) Truto	(5) Actual	(6) Month-end Cumulative
Month	Reconciliation	<u>Qtr</u>	Variance	Variance	Try to <u>Collect</u>	<u>Collect</u>	Balance
December '18					(3,033)	(3,133)	2,348
January '19	(0,000)	( 1 )	(000)	(0, 4, 4, 0)	(3,033)	(3,259)	(911)
February	(8,800)	(4)	(682)	(8,118)	2,933	2,637	(6,392)
March					2,933	2,879	(3,513)
April	(4.000)	(4)		(2, 40, 4)	2,933	2,976	(537)
May	(4,000)	(1)	(576)	(3,424)	1,333	1,340	(2,621)
June					1,333	1,450	(1,171)
July	40 700	$\langle \mathbf{O} \rangle$	407	40 500	1,333	1,381	210
August	42,700	(2)	167	42,533	(14,233)	(15,411)	27,332
September					(14,233)	(15,604)	11,728
October					(14,233)	(14,999)	(3,271)
November	29,000	(3)	(2,501)	31,501	(9,667)	(10,031)	18,199
December '19					(9,667)	(10,289)	7,910
January '20					(9,667)	(10,240)	(2,330)
February	(31,000)	(4)	(1,752)	(29,248)	10,333	9,207	(22,371)
March					10,333	10,125	(12,246)
April					10,333	9,676	(2,570)
May	(400)	(1)	(1,907)	1,507	133		
June					133		

### NOTES:

Col(1):	Quarterly FOA reconciliation amounts. (Refer to Attachment 20) A positive number is an over-collection. A negative number is an under-collection.
Col(2):	FOA reconciliation adjustment variance accumulated during the last three months, starting with the fourth prior month; the difference between the estimated recorded sales used to derive the \$/kwh adjustment and the actual recorded sales. (Col(5) - Col(4))
Col(3):	FOA reconciliation generated in the current quarter. The YTD FOA reconciliation difference minus the adjustment variance. Col(1) - Col(2)
Col(4):	Amount that the FOA reconciliation adjustment is trying to collect. (Col(1) * 1/3)
Col(5):	Actual collected amount. (recorded sales * \$/kwh adjustment/1.09751)
Col(6):	Cumulative balance of the FOA reconciliation (Previous balance + Col(3) + Col(5))

#### Maui Electric Company, Ltd. Molokai Division Calculations of the Average Residential Customer Bill

	Rate			
		05-01-20	06-01-20	
				ı.
Base Rates	effective date:	09/01/19	09/01/19	ı.
Base Fuel/Energy Charge	¢/kWh	0.0000	0.0000	
Non-fuel Energy Charge				
First 250 kWhr per month	¢/kWh	14.0459	14.0459	ı.
Next 500 kWhr per month	¢/kWh	16.6959	16.6959	
Customer Charge	\$	11.50	11.50	
Total Base Charges				l.
				ı.
IRP Refund	% on base	0.000	0.000	
Revenue Balancing Rate Adjustment	¢/kWh	0.8716		
PBF Surcharge	¢/kWh	0.7437	0.7437	
Renewable Energy Infrastructure Cost Recovery				1
Provision	¢/kWh	0.0000	0.0000	
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	
Refund of 2018 Interim	% on base	0.00	0.00	
Purchased Power Adjustment	¢/kWh	-0.3200	-0.3325	l.
Energy Cost Recovery	¢/kWh	18.231	12.810	
Green Infrastructure Fee	\$	1.25	1.25	

#### Avg Residential Bill at 400 kwh

05-01-20	06-01-20	Difference
0.00	0.00	0.00
35.11	35.11	0.00
25.04	25.04	0.00
11.50	11.50	0.00
71.65	71.65	0.00
0.00	0.00	0.00
3.49	1.35	-2.14
2.97	2.97	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
-1.28		-0.05
72.92	-	-21.68
1.25	1.25	0.00
151.00	127.13	

Charge (\$) at 400 Kwh

Increase (Decrease -) % Change -23.87 -15.81%

	Rate		Charge (\$) at 500 Kwh		00 Kwh	
		05-01-20	06-01-20	05-01-20	06-01-20	Difference
Base Rates	effective date:	09/01/19	09/01/19			
Base Fuel/Energy Charge	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Non-fuel Energy Charge						
First 250 kWhr per month	¢/kWh	14.0459	14.0459	35.11	35.11	0.00
Next 500 kWhr per month	¢/kWh	16.6959	16.6959	41.74	41.74	0.00
Customer Charge	\$	11.50	11.50	11.50	11.50	0.00
Total Base Charges				88.35	88.35	0.00
IRP Refund	% on base	0.000	0.000	0.00	0.00	0.00
Revenue Balancing Rate Adjustment	¢/kWh	0.8716	0.3383	4.36	1.69	-2.67
PBF Surcharge	¢/kWh	0.7437	0.7437	3.72	3.72	0.00
Renewable Energy Infrastructure Cost Recovery						
Provision	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
SolarSaver Adjustment	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
Refund of 2018 Interim	% on base	0.00	0.00	0.00	0.00	0.00
Purchased Power Adjustment	¢/kWh	-0.3200	-0.3325	-1.60	-1.66	-0.06
Energy Cost Recovery	¢/kWh	18.231	12.810	91.16	64.05	-27.11
Green Infrastructure Fee	\$	1.25	1.25	1.25	1.25	0.00

187.24 157.40

% Change

Increase (Decrease -)

-29.84 -15.94%

Avg Residential Bill at 500 kwh

# MAUI ELECTRIC COMPANY, LTD. -- Molokai Division FUEL OIL ADJUSTMENT FACTOR DATA

	FUEL FACTOR CENTS / KWH		
	RESIDENTIAL &		IAL BILL (\$)
EFFECTIVE DATE	<u>COMMERCIAL</u>	<u>@ 400 KVVH</u>	<u>@ 500 KWH</u>
January 1, 2018	-6.300	147.68	183.78
February 1, 2018	-6.275	147.78	183.90
March 1, 2018	-4.937	153.13	190.59
April 1, 2018	-5.975	148.47	184.76
May 1, 2018	-5.031	152.76	190.12
June 1, 2018	-3.490	160.24	199.48
July 1, 2018	-1.354	168.81	210.24
August 1, 2018	-4.992	154.26	192.05
September 1, 2018	-3.443	165.08	205.53
October 1, 2018	-4.054	162.63	202.48
November 1, 2018	-3.697	164.06	204.26
December 1, 2018	-1.431	173.13	215.59
	0.774	100.04	004.00
January 1, 2019	-3.771	163.91	204.03
February 1, 2019	-7.208	150.16	186.85
March 1, 2019	-4.872	159.50	198.53
April 1, 2019	-5.034	158.51	197.29
May 1, 2019	-3.503	164.98	205.37
June 1, 2019	5.096	166.63	206.77
July 1, 2019	3.171	161.65	200.57
August 1, 2019	2.259	155.00	192.25
September 1, 2019	19.349	152.49	189.11
October 1, 2019	19.071	151.51	187.89
November 1, 2019	20.907	162.13	201.16
December 1, 2019	18.365	151.94	188.43
January 1, 2020	18.533	153.75	190.67
February 1, 2020	21.165	164.02	203.51
March 1, 2020	21.967	167.23	207.52
April 1, 2020	19.555	157.34	195.16
May 1, 2020	18.231	151.00	187.24
June 1, 2020	12.810	127.13	157.40
JUILE 1, 2020	12.010	121.13	137.40

#### MAUI ELECTRIC COMPANY, LTD. -- Molokai Division **RESIDENTIAL SURCHARGE DATA**

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE	
06/01/11 08/17/17	IRP RECOVERY REFUND RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION		PERCENT ON BASE CENTS/KWH
07/01/17 - 06/30/18	RESID. PBF SURCHARGE ADJUSTMENT	0.4244	CENTS/KWH
01/01/18 - 06/30/18	GREEN INFRASTRUCTURE FEE	1.34	DOLLARS/MONTH
04/01/18 - 04/30/18	SOLARSAVER ADJUSTMENT	1.3400	CENTS/KWH
05/01/18 - 03/31/19	SOLARSAVER ADJUSTMENT	0.0000	CENTS/KWH
06/01/18 - 08/22/18	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.8954	CENTS/KWH
07/01/18 - 06/30/19	RESID. PBF SURCHARGE ADJUSTMENT	0.4658	CENTS/KWH
07/01/18 - 12/31/18	GREEN INFRASTRUCTURE FEE	1.21	DOLLARS/MONTH
08/23/18 - 05/31/19	INTERIM RATE INCREASE 2018 TEST YEAR	6.68	PERCENT ON BASE
08/23/18 - 05/31/19	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.3183	CENTS/KWH
01/01/19 / 06/30/19	GREEN INFRASTRUCTURE FEE	1.35	DOLLARS/MONTH
04/01/19 - 04/30/19	SOLARSAVER ADJUSTMENT	-0.0855	CENTS/KWH
5/1/2019 - 03/31/20	SOLARSAVER ADJUSTMENT	0.0000	CENTS/KWH
06/01/19	FINAL RATE INCREASE (3.74%), DOCKET NO. 2017-0150 (201		२)
06/01/19 - 06/30/19	REFUND OF INTERIM RATE INCREASE 2018 TEST YEAR	-2.00	PERCENT ON BASE
06/01/19 - 05/31/20	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.8716	CENTS/KWH
07/01/19 - 12/31/19	RESID. PBF SURCHARGE ADJUSTMENT	0.4775	CENTS/KWH
07/01/19 - 12/31/19	GREEN INFRASTRUCTURE FEE	1.17	DOLLARS/MONTH
08/01/19 - 08/31/19	PURCHASED POWER ADJUSTMENT	-0.7518	CENTS/KWH
09/01/19 - 09/30/19	PURCHASED POWER ADJUSTMENT	-0.7820	CENTS/KWH
10/01/19 - 10/31/19	PURCHASED POWER ADJUSTMENT	-0.7475	CENTS/KWH
11/01/19 - 11/30/19	PURCHASED POWER ADJUSTMENT	0.0692	CENTS/KWH
12/01/19 - 12/31/19	PURCHASED POWER ADJUSTMENT	0.0655	CENTS/KWH
01/01/20 - 01/31/20	PURCHASED POWER ADJUSTMENT	0.0648	CENTS/KWH
01/01/20	RESID. PBF SURCHARGE ADJUSTMENT	0.7437	CENTS/KWH
01/01/20	GREEN INFRASTRUCTURE FEE	-	DOLLARS/MONTH
02/01/20 - 04/30/20	PURCHASED POWER ADJUSTMENT	0.00	CENTS/KWH
04/01/20 - 04/30/20	SOLARSAVER ADJUSTMENT		CENTS/KWH
05/01/20 - 05/31/20	PURCHASED POWER ADJUSTMENT		CENTS/KWH
05/01/20	SOLARSAVER ADJUSTMENT		CENTS/KWH
06/01/20	PURCHASED POWER ADJUSTMENT		CENTS/KWH
06/01/20	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.3383	CENTS/KWH

~ Surcharges currently in effect are in bold. ~ Base charges include customer charge, demand charge, energy charge, power factor adjustment, voltage discount and minimum charge.